Job Name:

System Reference: Date:

OVERVIEW

The BACnet® function can be used when connecting AE-200/AE-50/EW-50 to the open network BACnet® that is used for the building management system. Connected air conditioning units can be monitored and operated not only from the existing web browser or the AE-200/AE-50's LCD, but also from the building management system using the BACnet® communication protocol.

BACnet® communication now communicates from a centralized controller's LAN2 port.

LICENSES

- LIC-BACnet Master
  - Master Controller license for AE-200A and EW-50A
- LIC-BACnet Expansion
  - Expansion Controller license for AE-50A and EW-50A

LIC BACNET SPECIFICATIONS

- Control up to 50 groups
  - 1 to 16 indoor units can be collectively controlled in a group
  - Supports dual set-point functionality (connected model dependent)
- See page 3 for Points List
- BTL Compliant
- BACnet® communication specifications are based on ANSI/ASHRAE Standard 135-2010

PC REQUIRMENTS

The BACnet® Setting Tool is dedicated software to set network settings and settings related to BACnet® communication (also including object selection and COV/Event notification) and then set the settings to the centralized controller. The PC used for the BACnet® Setting Tool requires the following environment.

Item	Requirement	Remarks
CPU	1 GHz or higher	
Memory	1 GB or more	
HDD space	100 MB or more	C drive
Screen resolution	1024 x 768 or higher	
LAN	1 port (100 BASE-TX)	
OS	Microsoft® Windows® 7 32-bit/64-bit Microsoft® Windows® 8.1 32-bit/64-bit * Not compatible to Windows Vista®.	
Execution environment	Microsoft® .NET Framework 4.5 or later	
Others	Pointing device such as a mouse Internet connection environment (required when installing .NET Framework)	

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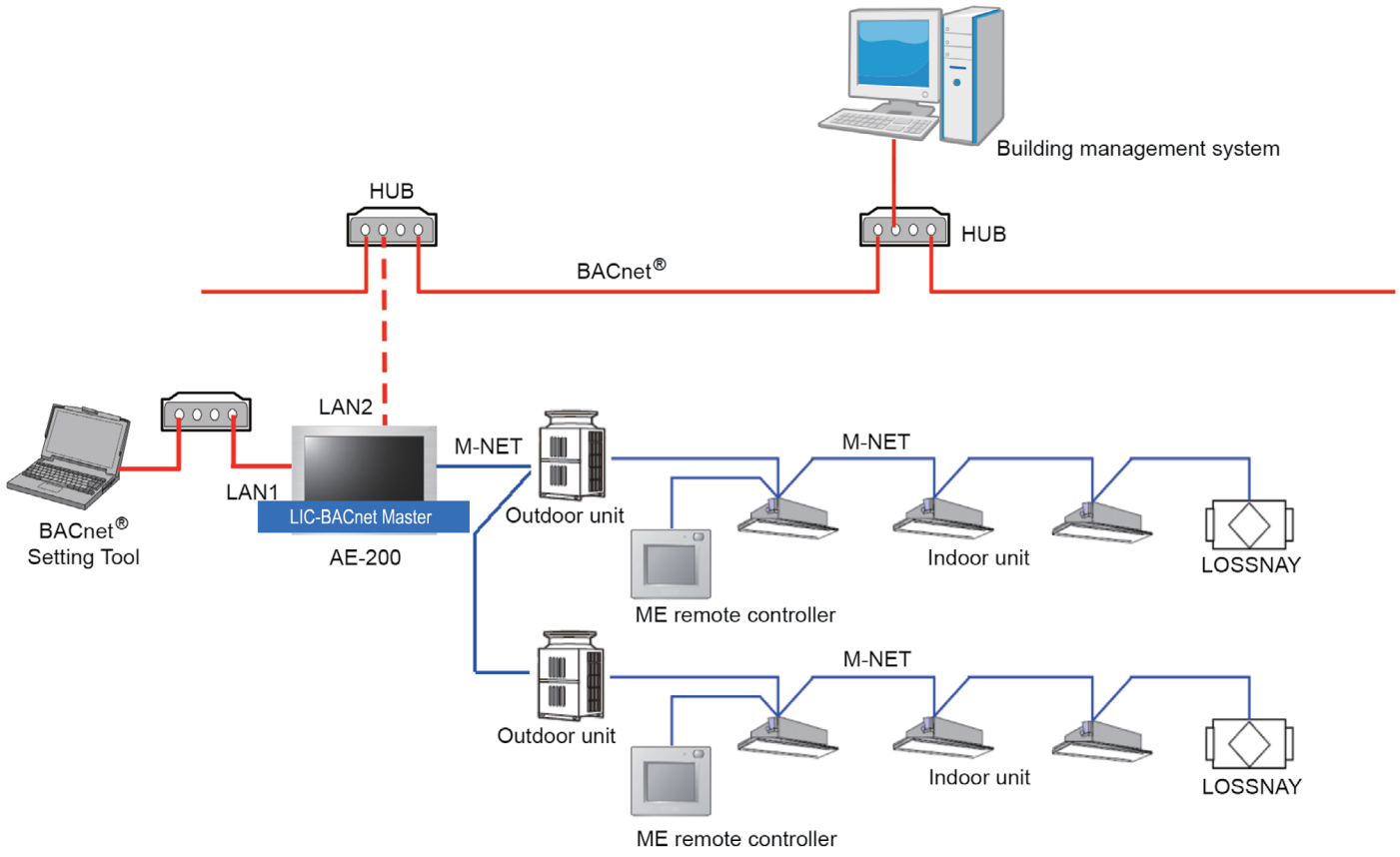
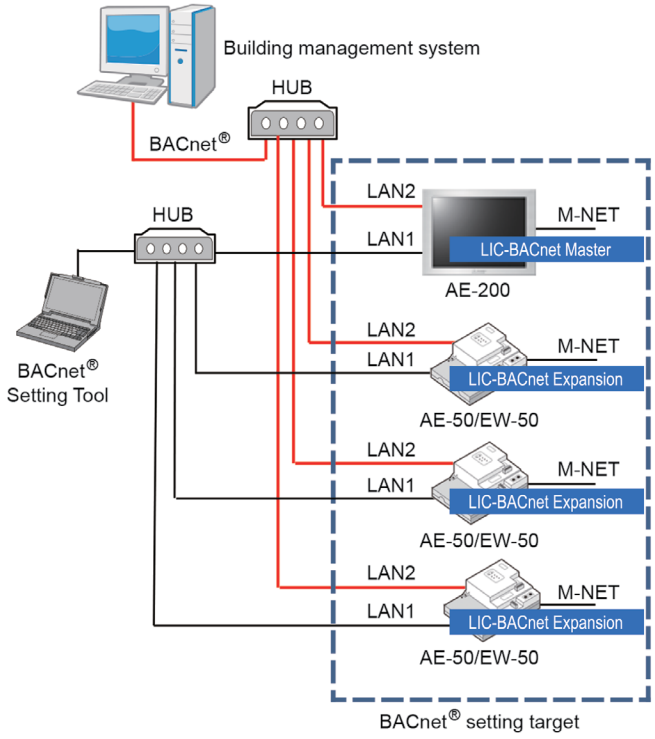
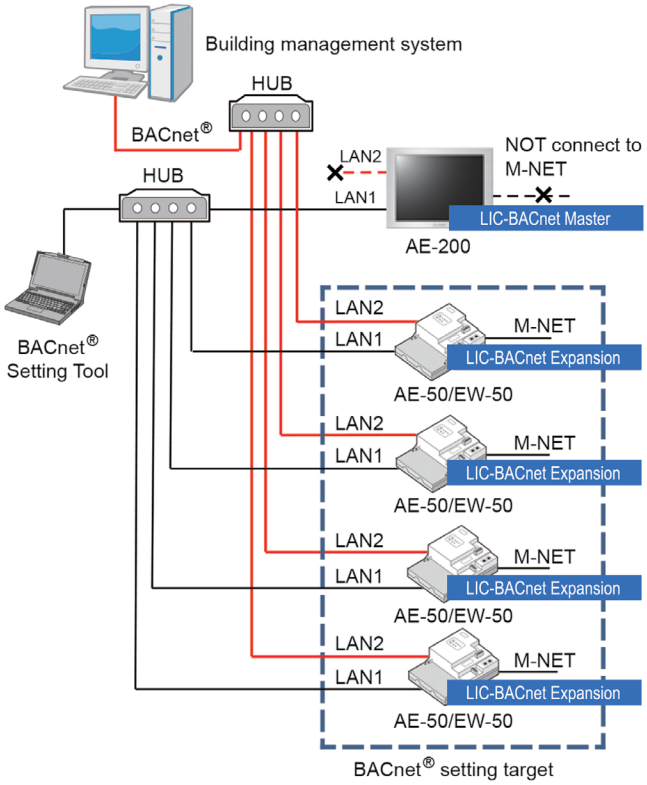
LIC-BACNET - SYSTEM EXAMPLE



(A) When controlling more than 50 units of equipment and not using an approtioned electricity billing function



(B) When using with Energy Apportionment funtion



Specifications are subject to change without notice.

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AE-200/AE-50/EW-50 BACNET® POINTS LIST

Object List
On Off Setup
On Off State, Number of ON/OFF, Cumulative operation time
Alarm Signal (Binary code with a 4 digit code outputted to the AE-200)
Error Code
Operational Mode Setup
Operational Mode State
Fan Speed Setup
Fan Speed State
Room Temp [Water Temp]
Set Temp [Set Water Temp]
Set Temp Cool
Set Temp Heat
Set Temp Auto
Filter Sign [Circulating Water Exchange Sign]
Filter Sign Reset [Circulating Water Exchange Sign Reset]
Prohibition On Off
Prohibition Mode
Prohibition Filter Sign Reset [Prohibition Circulating Water Exchange Sign Reset]
Prohibition Set Temperature
M-NET Communication State
System Forced Off
Air Direction Setup
Air Direction State
Set High Limit Setback Temp
Set Low Limit Setback Temp
Ventilation Mode Setup
Ventilation Mode State
Air To Water Mode Setup
Air To Water Mode State
System Alarm Signal (4-digit error code)
PI Controller Alarm Signal (4-digit error code)
Group Apportioned Electric Energy
Interlocked Units Apportioned Electric Energy
PI controller Electric Energy 1–4
Pulse Input Electric Energy 1–4
Group Apportionment Parameter
Interlocked Units Apportionment Parameter
Night Purge State
Thermo On Off State
Trend Log Room Temp
Trend Log Group Apportioned Electric Energy
Trend Log Interlocked Units Apportioned Electric Energy
Trend Log PI controller Electric Energy 1–4
Trend Log Pulse Input Electric Energy 1–4
Trend Log Group Apportionment Parameter
Trend Log Interlocked Units Apportionment Parameter

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